

Amendments to the Claims

The listing of claims will replace the previous version, and the listing of claims:

Listing of claims

1-7. (canceled)

8. (New) A gas chromatograph with a fluid control assembly for controlling flow and pressure of gas, said fluid control assembly comprising:

a flow path,

a control valve situated in the flow path and being capable of adjusting an opening degree thereof,

a flow resistance provided in the flow path at a downstream side of the control valve,

a sample introducing part provided in the flow path at a downstream side of the flow resistance,

differential pressure detecting means attached to the flow path for detecting a differential pressure between two ends of the flow resistance,

pressure detecting means attached to the flow path between the flow resistance and the control valve for detecting a pressure thereat, and

control means attached to the control valve, the differential pressure detecting means and the pressure detecting means for carrying out a predetermined calculation based on signals from the differential pressure detecting means and the pressure detecting means for controlling the opening degree of the control valve so that flow amount or pressure in the flow path can be controlled at a predetermined value by the differential pressure detecting means and the pressure detecting means.

9. (New) A gas chromatograph according to claim 8, wherein said control means carries out a predetermined calculation based on a differential between a signal at the differential pressure detecting means and a signal at the pressure detecting means.